

## Gaskleen® V Series Filter Assembly

### Description

The Gaskleen V filter assembly is Pall's latest generation gas filter assembly, designed to provide filtration of ultrahigh-purity semiconductor process gases. Our patented o-ringless design eliminates the need for an elastomeric seal. As a result, there are no downstream (wetted surface) welds.

The preconditioned option provides the cleanest PTFE filter assemblies available.

- 316L stainless steel housing
- All-fluoropolymer filter element
- High temperature and pressure resistance
- 100% helium leak tested
- Manufactured and packaged in a cleanroom environment



### Specifications

#### Materials of Construction

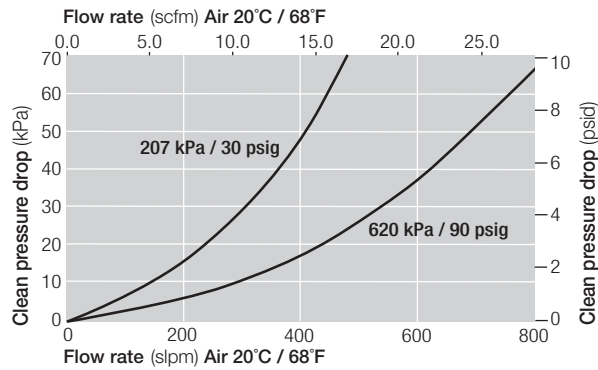
<b>Filter Medium</b>	PTFE
<b>Support</b>	Fluoropolymer
<b>Core and End caps</b>	PFA
<b>Internal Surface Finish</b>	$\leq 0.18 \mu\text{m} / 7 \mu\text{in } R_a$ $\leq 0.51 \mu\text{m} / 20 \mu\text{in } R_a$
<b>Housing</b>	Electropolished 316L stainless steel  Housing material meets or exceeds VIM/VAR specifications.  EU pressure equipment directive: Assemblies have been evaluated and designed using SEP per the European Union's Pressure Equipment Directive 2014/68/EU and are not CE marked.
<b>Internal Housing Surface Chemistry</b>	Cr:Fe ( $\geq 1.2:1$ ) chromium-enriched

<b>Removal Rating<sup>1</sup></b>	$\geq 3 \text{ nm}$
<b>Preconditioned Cleanliness Option</b>	$< 10 \text{ ppb}$ moisture contribution $< 10 \text{ ppb}$ total hydrocarbon (THC) contribution $< 10 \text{ ppb}$ oxygen ( $\text{O}_2$ ) contribution
<b>Connections</b>	1/4 in, 1/2 in or 3/4 in Gasket Seal (VCR <sup>2</sup> or compatible) 1/4 in 3/8 in or 1/2 in compression fitting
<b>Leak Rating</b>	100% helium leak tested to $10^{-9} \text{ atm cm}^3/\text{sec}$ Design validated to $10^{-11} \text{ atm cm}^3/\text{sec}$
<b>Design Pressure (Maximum Operating Pressure)</b>	5.2 MPa @ 140 °C / 750 psig @ 284 °F
<b>Maximum Allowable Differential Pressure</b>	0.7 MPa @ 20 °C / 100 psid @ 68 °F
<b>Maximum Allowable Reverse Differential Pressure</b>	0.34 MPa @ 20 °C / 50 psid @ 68 °F

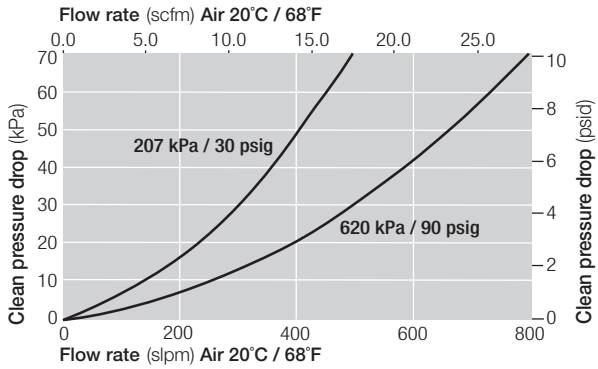
<sup>1</sup> Particle rating based on laboratory testing with NaCl aerosol.

<sup>2</sup> VCR is a trademark of Swagelok Co.

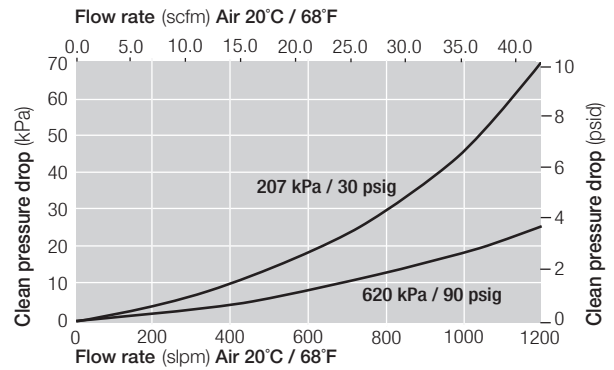
# Pressure Drop vs. Gas Flow Rate



VMM4

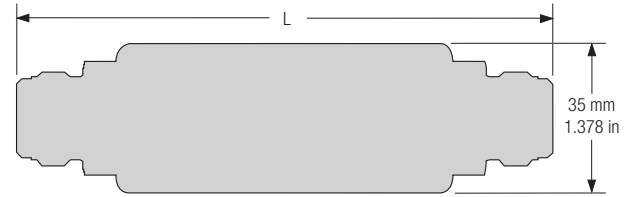


SM6



VMM8 / VMM12

## Dimensions



Unit conversion: 100 kilopascals = 1 bar

## Part Numbers / Ordering Information

Part Number <sup>3</sup>	Description	Nominal Length (L) (mm / inch)	Preconditioned
SGLFPF6501VMM4	1/4 " Gasket seal, (VCR or compatible) male / male	127 / 5.0	No
SGLFPF6502VMM4	1/4 " Gasket seal, (VCR or compatible) male / male	127 / 5.0	Yes
SGLFPF6501VMM8	1/2 " Gasket seal, (VCR or compatible) male / male	127 / 5.0	No
SGLFPF6502VMM8	1/2 " Gasket seal, (VCR or compatible) male / male	127 / 5.0	Yes
SGLFPF6501VMM12	3/4 " Gasket seal, (VCR or compatible) male / male	140 / 5.5	No
GLFPF6501VMF4	1/4 " Gasket seal, (VCR or compatible) male / female	141 / 5.6	No
SGLFPF6501SM4	1/4 " Compression seal, (Swagelok <sup>4</sup> or compatible) male / male	113 / 4.4	No
GLFPF6501SM4	1/4 " Compression seal, (Swagelok or compatible) male / male	141 / 5.6	No
SGLFPF6501SM6	3/8 " Compression seal, (Swagelok or compatible) male / male	118 / 4.6	No
GLFPF6501SM6	3/8 " Compression seal, (Swagelok or compatible) male / male	148 / 5.8	No
SGLFPF6501SM8	1/2 " Compression seal, (Swagelok or compatible) male / male	119 / 4.7	No

<sup>3</sup>To order in box quantities of 24, please add "SB24" at the end of the part number. Example: SGLFPF6502VMM4SB24

<sup>4</sup>Swagelok is a trademark of Swagelok Co.



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